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PLASMA DEPOSITED SELECTIVE WETTING MATERIAL

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Abstract of the Disclosure

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A selective wetting material is formed by plasma depositing a film on a substrate from a two-component reaction of a silicon donor and organic precursor, and photo-oxidizing selected regions of the deposited film to form wetting regions to which a liquid will selectively adhere. When the liquid is an electrically conductive material, the process may be used to form printed circuits on a circuit board. When the substrate is optically transparent and the non-photo-oxidized regions of the film are removed, the process may be used to form a photomask.